

**SELECTIVE NON-CATALYTIC REDUCTION (SNCR) OF TOXIC  
GASEOUS EFFLUENTS**

**ABSTRACT OF THE DISCLOSURE**

5 Selective non-catalytic reducing (SNCR) compounds, independent of the gas generant composition, reduce the toxicity of effluent gases produced by combustion of nonazide gas generating compositions used to inflate vehicle occupant restraint systems. It is believed that reaction of the  $\text{NH}_2$  radical (formed from the SNCR compound) with NO in the combustion gas forms  $\text{N}_2$  thereby decreasing the concentration of toxic nitrogen oxides therein. Heterogeneous placement of the reducing compound proximate to the gas generant bed within a gas generator ensures intimate contact with the combustion gases, and yet still provides a noninvasive method of toxic gas reduction.